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ABSTRACT OF THE DISCLOSURE

10 A non-aqueous electrolytic solution comprising a non-aqueous solvent and an electrolyte, which further contains a combination of a nitrile compound and an S=O group-containing compound (or a dinitrile compound) in an amount of 0.001 to 10 wt.% imparts improved cycle performance and storage property to a lithium battery, particularly a lithium secondary battery.